

PS-LX56/LX56P

SERVICE MANUAL

Ver 1.1 2001.07

PS-LX56/LX56P are the turntable section in LBT-A190/A195/A290/A290K/A295/A390/A390K/A395/A490/A490K/A495/D150/D250/D550/G1000/G2000.

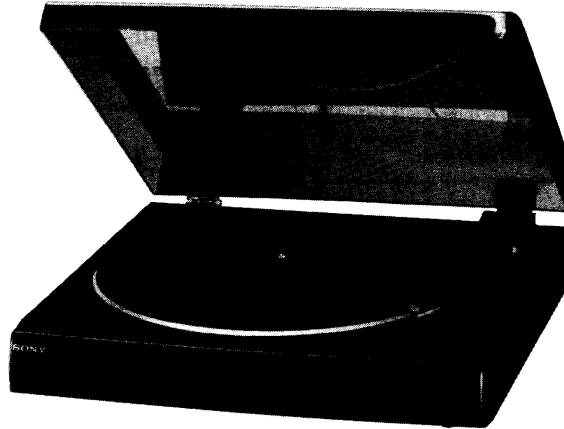


PHOTO : PS-LX56

US Model
Canadian Model
PX Model
Tourist Model
PS-LX56
AEP Model
E Model
Australian Model
PS-LX56/LX56P
UK Model
PS-LX56P

SPECIFICATIONS

Turntable

Platter
Motor
Drive system
Speed
Wow and flutter
Signal-to-noise ratio
Automatic system

(PS-LX56)

30cm (12 in.)
DC servo motor
Belt drive
33 1/3 rpm/45 rpm switchable
0.2% (WRMS)
60 dB (DIN-B)
Return, reject

Tonearm

Type
Pivot-to-stylus length
Overall arm length

Dynamically balanced
203 mm (8 in.)
235 mm (9 1/4 in.)

Cartridge

Type
Frequency response
Stylus

Moving magnet type
20 Hz-20kHz
CN-234

General

Dimensions
Weight
Power requirement

355 × 94 × 345 mm(w/h/d)
(14 × 3 3/4 × 13 5/8 inches)
Approx. 2.5 kg (5 lb 8 oz)
US and Canadian model : 120V AC, 60Hz
European model : 220-230V AC, 50/60Hz
Australian model : 240V AC, 50Hz
Model for other countries : 110-120V/220-240V
adjustable with the
voltage selector
AC, 50/60Hz

Power consumption
Accessory supplied
Optional accessories

2 W
45-rpm adaptor (1)
Replacement stylus CN-234
Stat spray XP-C10
Cleaner XP-C1, XP-C2

Turntable

Platter
Tone arm type
Cartridge type
Stylus
Mass
Dimensions

(PS-LX56P)

30 cm
Dynamically balanced
Moving magnet type
Sony CN-234 (0.6 mil diamond)
Approx. 2.3 kg (5 lb 1 oz)
Approx. 355 x 95 x 345 mm
(14 x 3 3/4 x 13 5/8 inches)
(w/h/d, including projections)

Design and specifications subject to change without notice.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

9-959-216-12
2001G0200-1
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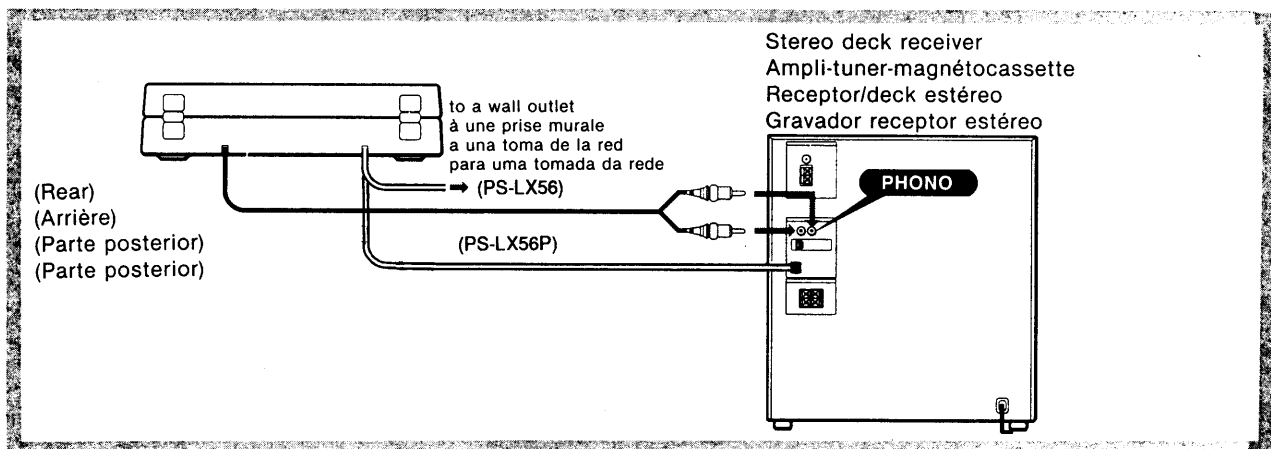
Sony Corporation
Home Audio Company
Shinagawa Tec Service Manual Production Group

STEREO TURNTABLE SYSTEM
SONY®

Connections

Note

Connect the red plug to the right-channel jack (R), and the white plug to the left-channel jack (L).



Notes on installation

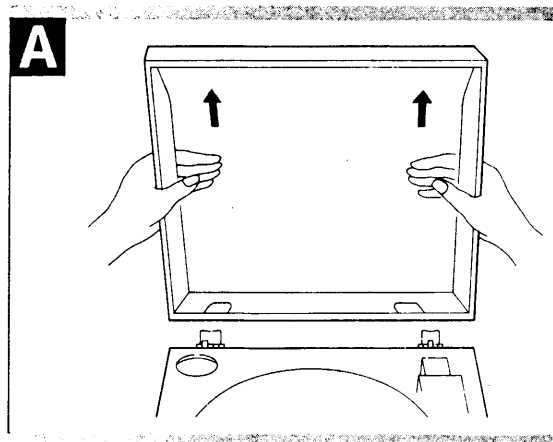
- Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.

Nota

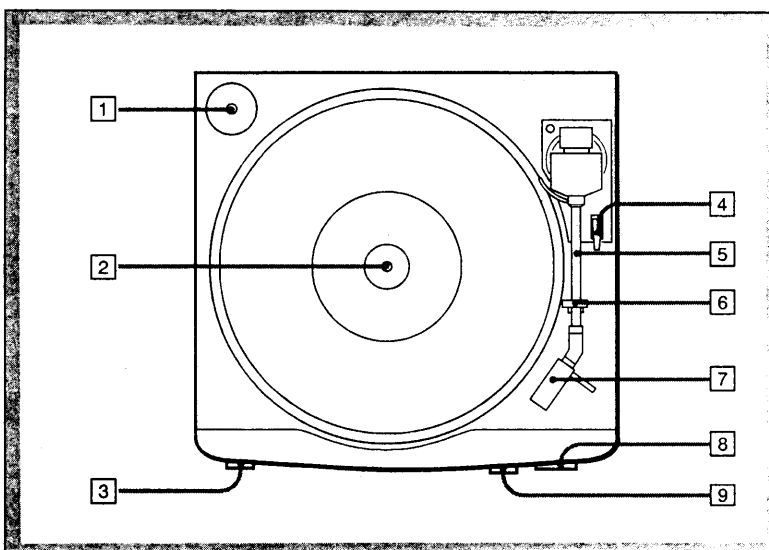
Conecte la clavija roja a la toma del canal derecho (R), y la blanca a la del canal izquierdo (L).

To remove the dust cover **A**

Open the cover fully and pull it up.

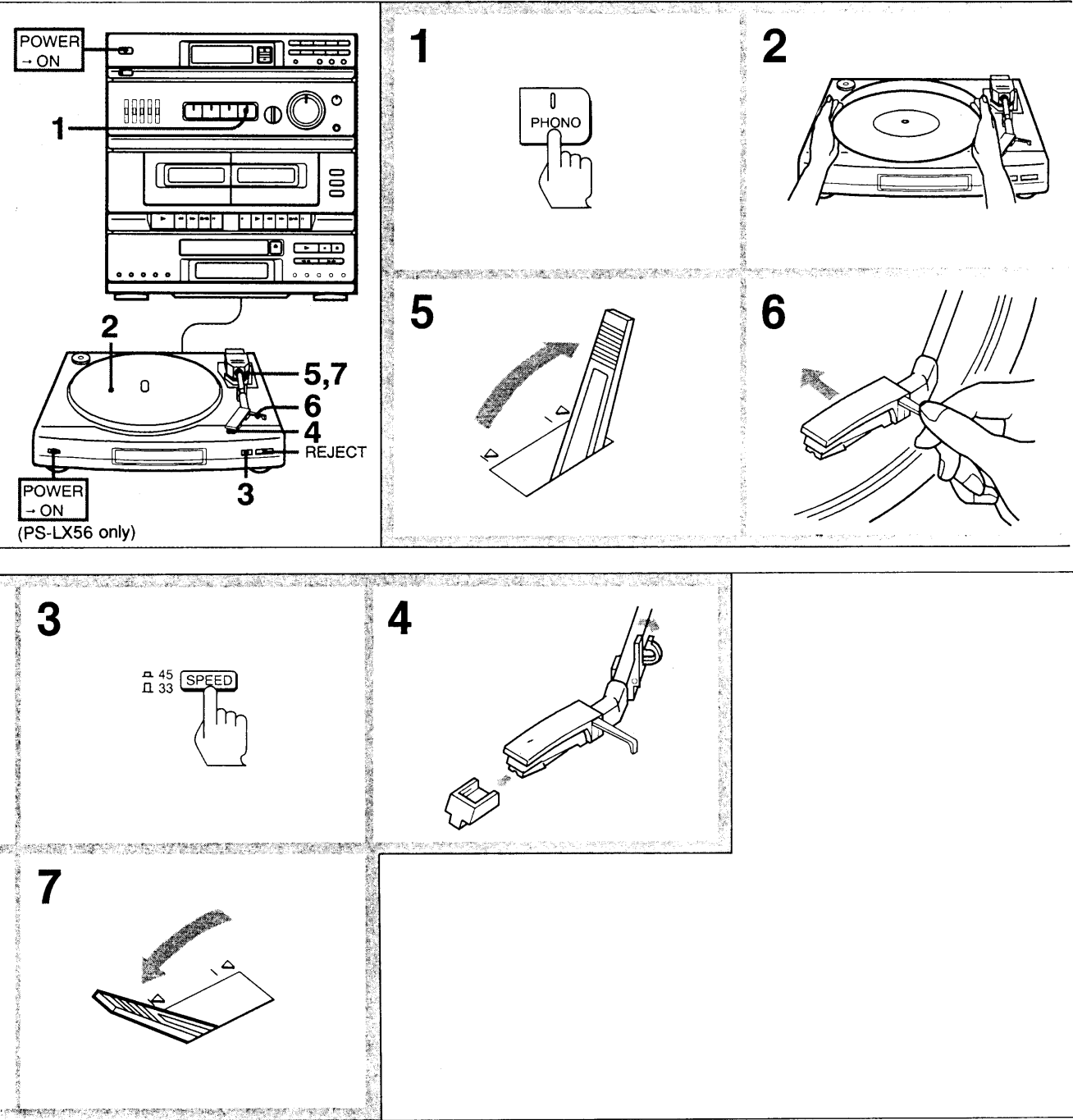


Location of Controls



- 1 45-rpm adaptor
- 2 Centre spindle
- 3 POWER switch (PS-LX56)
- 4 Cueing lever
- 5 Tonearm
- 6 Armrest
- 7 Cartridge
- 8 REJECT button
- 9 Speed selector

Playing Records



When the record is played to the end, the tonearm returns to the armrest and the turntable stops.

To stop during play, press REJECT.

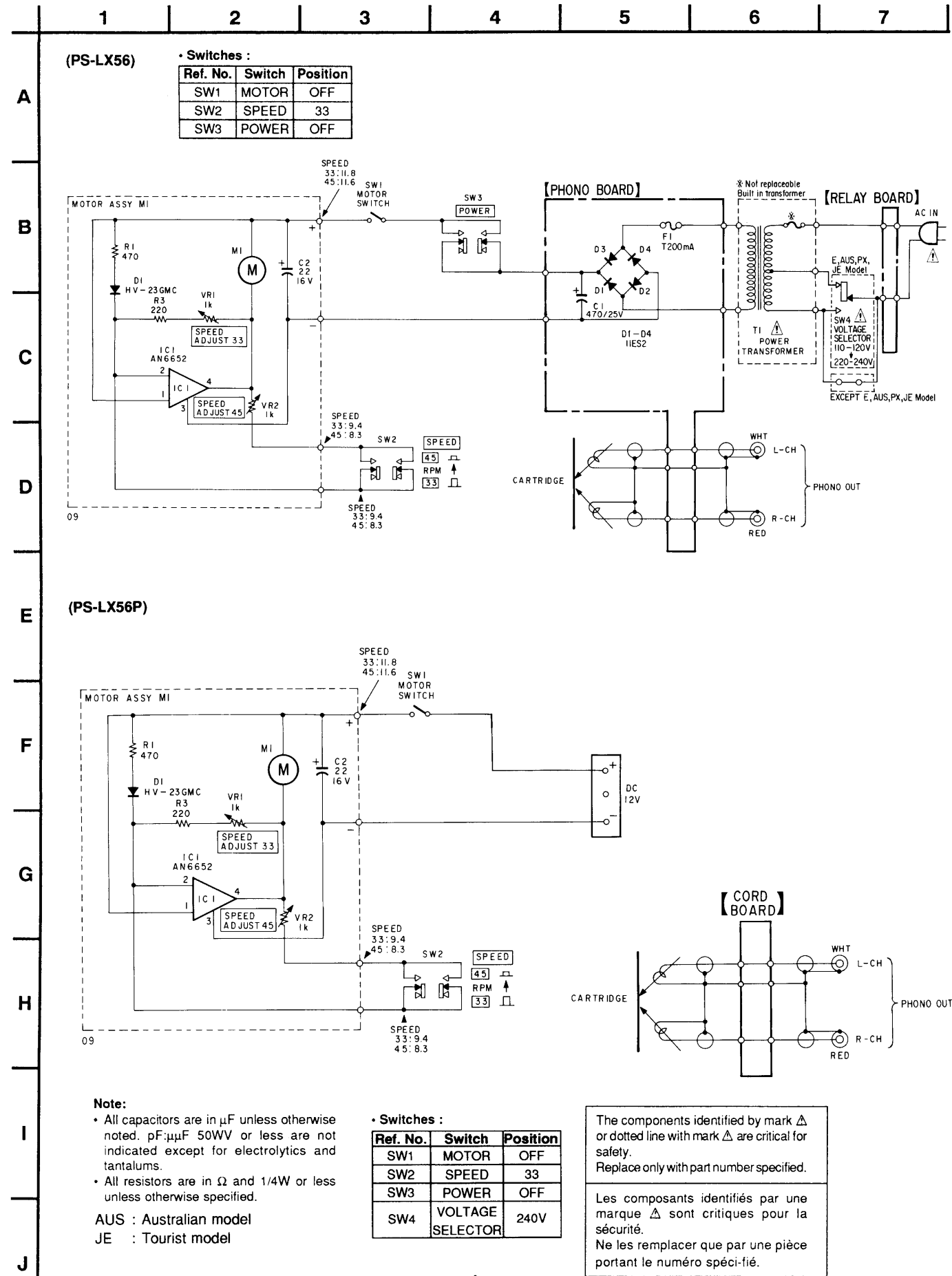
To play a different part of the record
Lift the tonearm by setting the cueing level to ▼, move the tonearm by hand to the desired point, then set the cueing lever to ▼.

To play a 17-cm record
Use the supplied adaptor

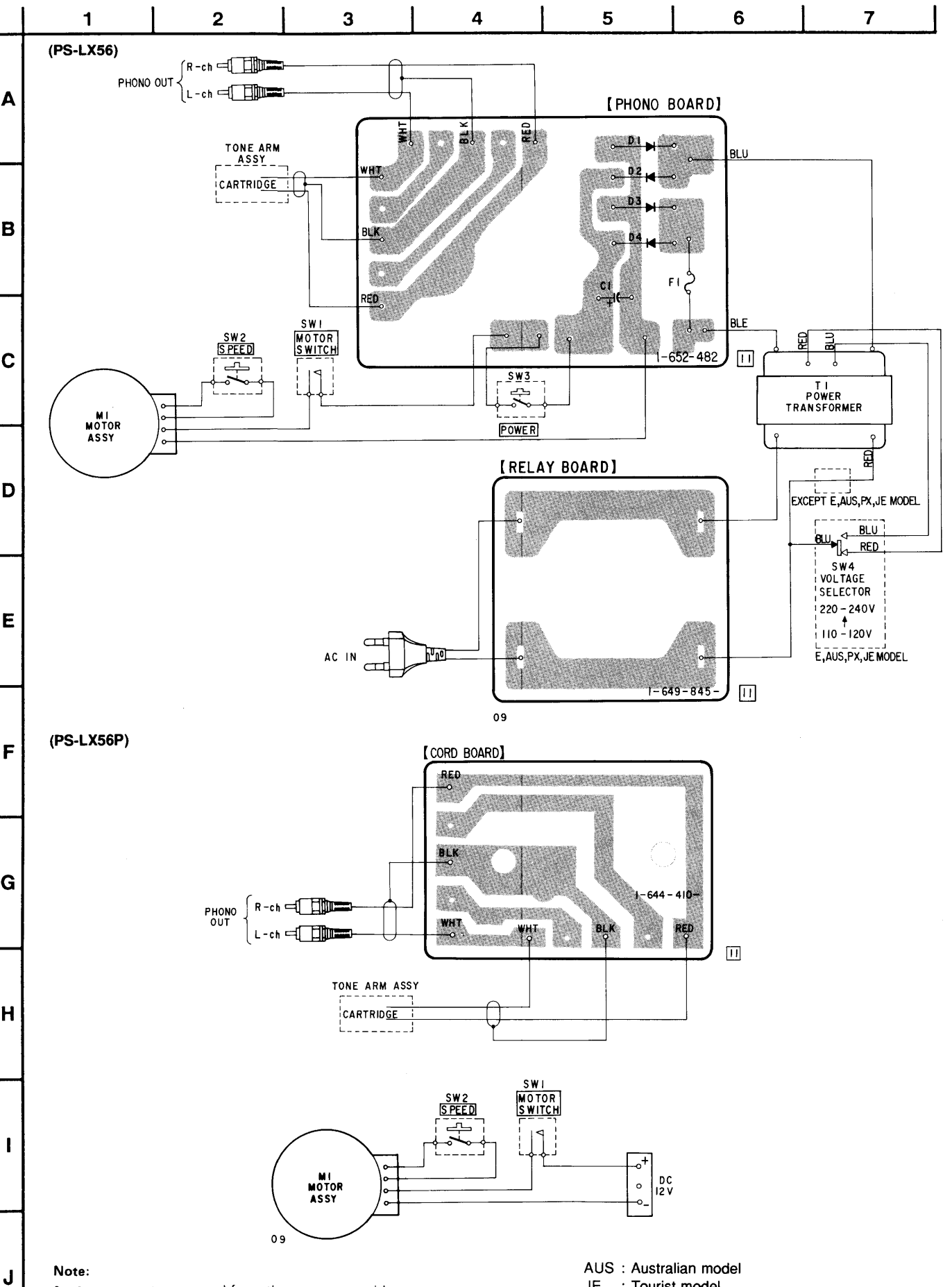
If the tonearm moves outward when you move it close to the centre
Do not resist this movement, as it may damage the automatic return mechanism.

If the tonearm does not return to its armrest
Press REJECT.

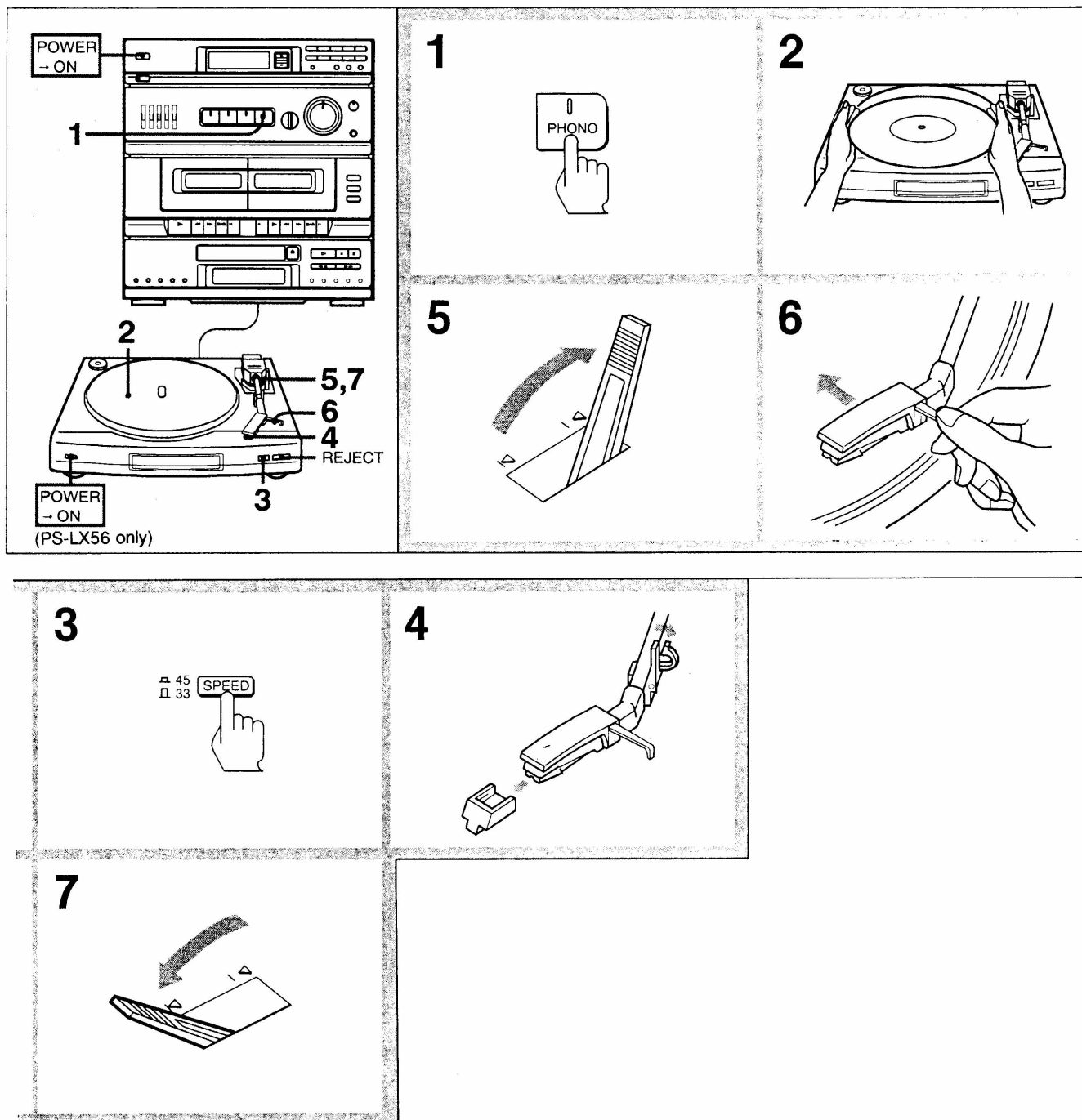
SCHEMATIC DIAGRAMS



WIRING DIAGRAMS



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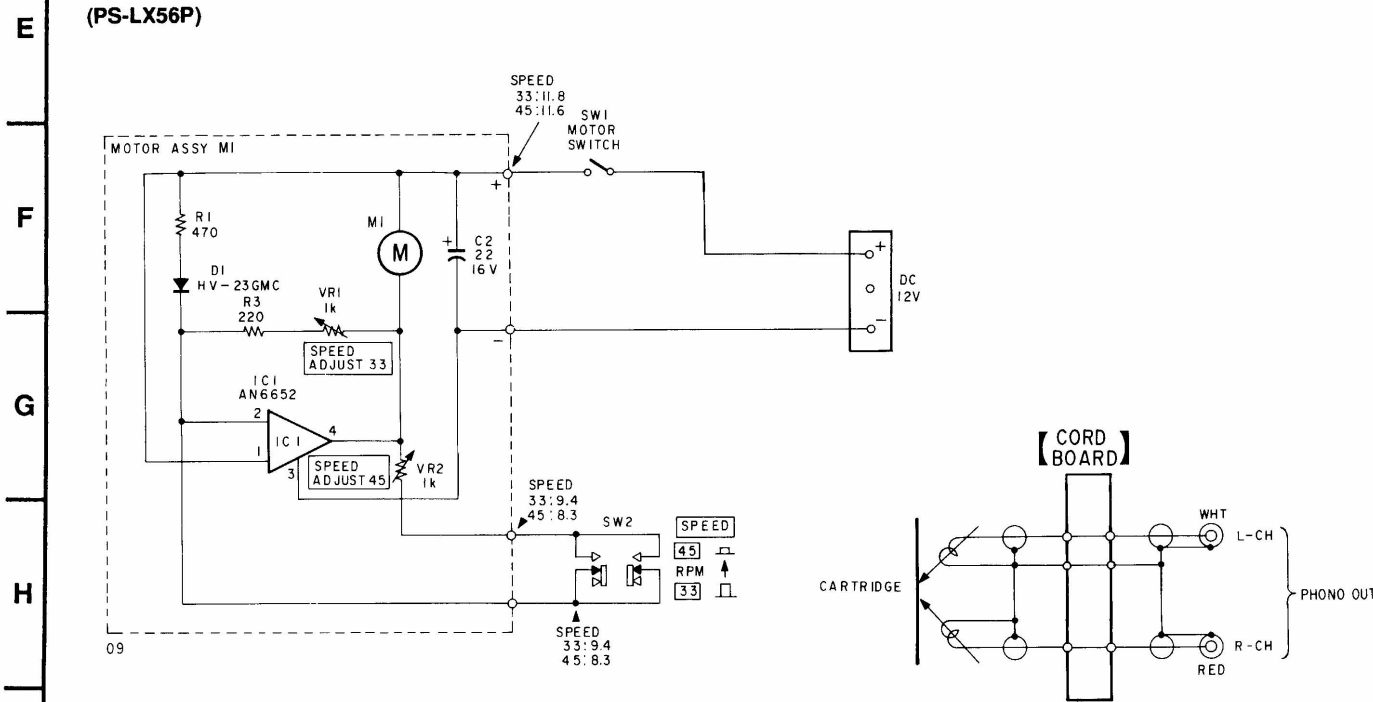
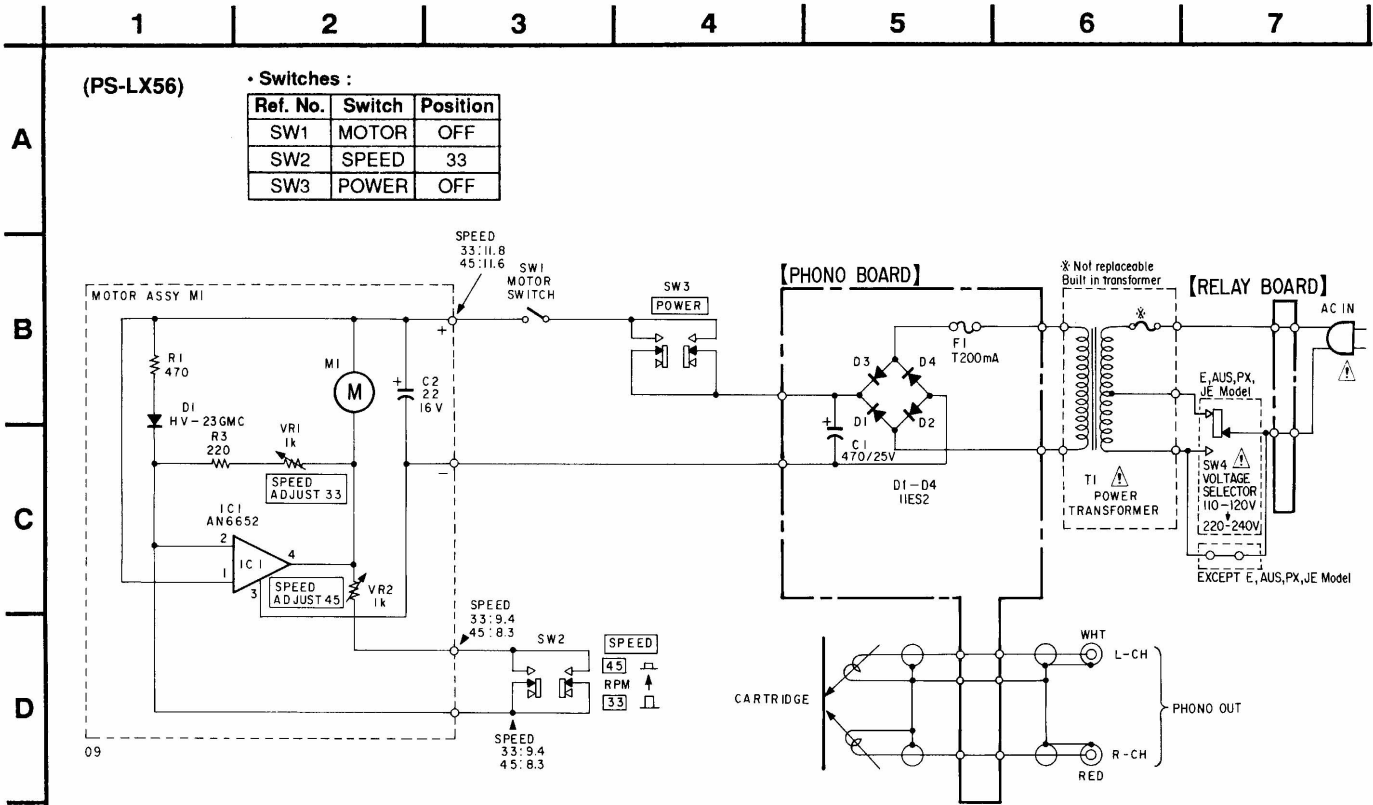
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If the tonearm does not return to its armrest

Press REJECT.

SCHEMATIC DIAGRAMS



Note:

- All capacitors are in μF unless otherwise noted. pF ; μF 50VV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.

AUS : Australian model
JE : Tourist model

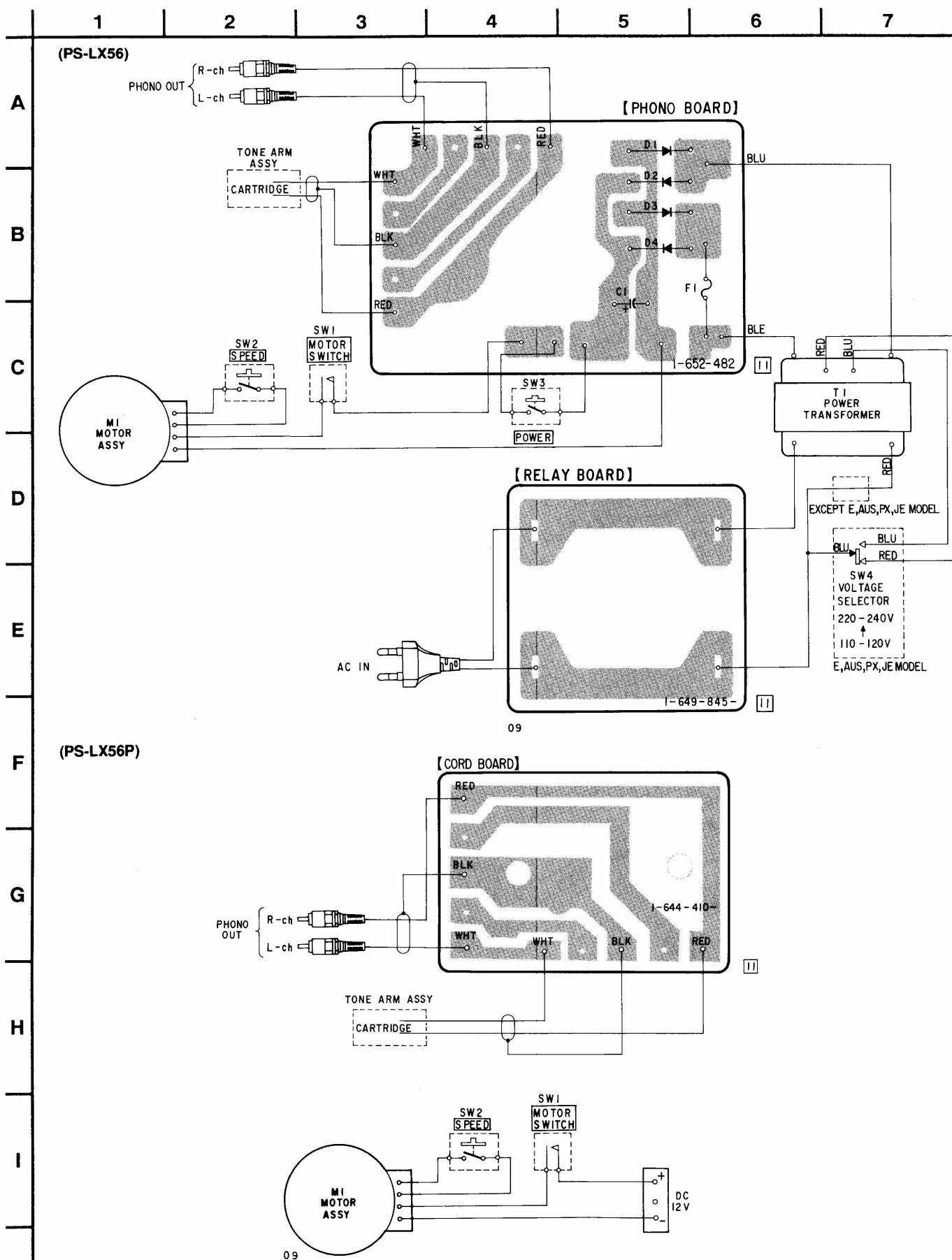
• Switches :

Ref. No.	Switch	Position
SW1	MOTOR	OFF
SW2	SPEED	33
SW3	POWER	OFF
SW4	VOLTAGE SELECTOR	240V

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spéci-fié.

WIRING DIAGRAMS



Note:

● ○ — : parts extracted from the component side.

AUS : Australian model
JE : Tourist model

CORD

PHONO

RELAY

EXPLODED VIEW

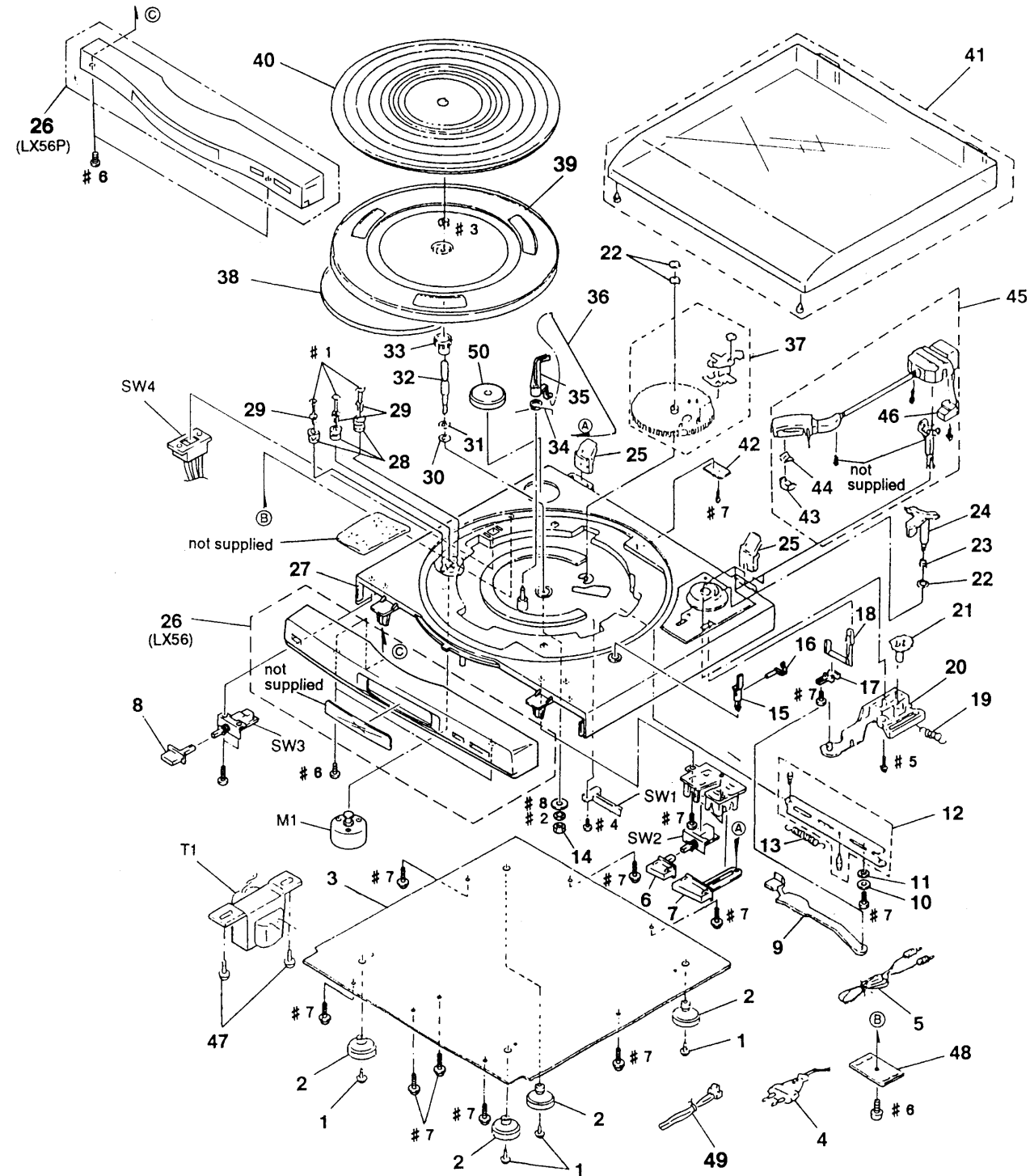
NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- AUS : Australian model
- CND : Canadian model
- EE : East European model
- IT : Italian model
- MX : Mexican model
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Ref. No.	Part No.	Description	Remark
1	4-950-497-01	FOOT SEAT	
2	4-950-490-01	PLASTIC STAND	
* 3	4-961-804-01	BUTTON BOARD	
Δ 4	1-575-651-61	CORD, AC (LX56: AEP, EA, EE, IT, MX, MY, CIS, SP)	
Δ 4	1-575-975-11	CORD, AC (LX56: CND, US)	
Δ 4	1-590-074-11	CORD, AC (LX56: E)	
Δ 4	1-690-608-11	CORD, AC (LX56: AUS)	
Δ 4	1-696-570-21	CORD, AC (LX56: UK)	
5	1-555-116-11	CORD, PHONO...(BLACK)	
6	4-964-177-01	KNOB SPEED...(BLACK)	
6	4-964-177-11	KNOB SPEED	
	...(LX56:SILVER, SILVER METALLIC)		
7	4-964-178-01	KNOB REJECT...(BLACK)	
7	4-964-178-11	KNOB REJECT	
	...(LX56:SILVER, SILVER METALLIC)		
8	4-964-184-01	KNOB POWER (LX56:BLACK)	
8	4-964-184-11	KNOB POWER	
	...(LX56:SILVER, SILVER METALLIC)		
9	4-947-487-01	RETURN LINK	
10	4-890-173-00	WASHER	
11	3-659-350-00	WASHER	
12	A-4604-947-A	RETURN ASSY, LEVER	
13	4-947-485-01	SPRING (22)	
14	4-947-510-01	NUT	
15	4-947-491-01	ARM REST	
16	A-4660-499-A	ARM CLIP ASSY	
17	4-947-477-01	CUEING (BASE)	
18	4-947-468-01	LEVER, CUEING	
19	4-963-537-01	SPRING	
20	4-963-536-01	LINK RETURN	
21	4-963-535-01	ADJUST CAM	
22	4-947-514-01	4MM CS RING	
23	4-947-467-01	SPRING (6)	
24	4-947-466-01	TONE ARM ELEVATOR	
25	A-4660-498-A	HINGE ASSY	
26	A-4384-982-A	PANEL (B) ASSY. FRONT (LX56: SILVER)	
26	A-4411-941-A	PANEL (B) ASSY. FRONT (LX56: SILVER METALLIC)	
26	A-4660-577-A	FRONT PANEL (G) ASSY (LX56: GRAY) (US)	
26	A-4660-578-A	FRONT PANEL (G) ASSY (LX56: BLACK)	
26	A-4660-976-A	FRONT PANEL (G) ASSY (LX56P)	
* 27	4-950-487-01	MAIN CABINET (B)...(BLACK)	
* 27	4-950-487-11	MAIN CABINET (B) ...(LX56:SILVER, SILVER METALLIC)	
28	4-947-505-01	CUSHION MOTOR	
29	4-947-504-01	COLLAR	
30	3-451-162-00	WASHER (56)	
31	3-701-445-21	WASHER	
32	4-947-498-01	STELL BALL	
33	4-947-497-01	GEAR	
34	4-947-496-01	SPRING (34)	
35	4-947-495-01	WIPER REJECT	
36	4-948-101-01	SPRING (38)	
37	A-4604-916-A	GEAR ASSY, SPUR	
38	4-947-503-01	BELT	

Ref. No.	Part No.	Description	Remark
39	4-947-494-01	TURNTABLE PLATTER	
40	4-947-539-01	RUBBER MAT	
41	A-4604-946-A	DUST COVER ASSY	
* 42	1-652-482-11	PHONO BOARD (LX56)	
* 42	1-644-410-11	CORD BOARD (LX56P)	
43	4-948-095-01	COVER, CARTRIDGE	
44	4-951-290-01	STYLUS (CN-234)	
45	A-4604-940-A	ARM ASSY, TONE	
46	4-947-464-01	COUNTER WEIGHT	
47	4-952-961-01	SCREW (LX56)	
* 48	1-649-845-11	RELAY BOARD (LX56)	
49	1-557-109-21	CORD, DC (LX56P)	
50	3-701-806-00	ADAPTOR, 45	
M1	A-4604-945-A	MOTOR ASSY	
SW1	1-570-666-11	SWITCH (LEAF)	
SW2	1-571-089-11	SWITCH, PUSH (SPEED) (1 KEY)	
SW3	1-692-211-11	SWITCH, PUSH (POWER) (1 KEY) (LX56)	
Δ SW4	1-692-835-11	VOLTAGE SELECTOR (LX-56: AUS, E, MX, MY, SP)	
Δ T1	1-450-987-11	TRANSFORMER, POWER (LX56: AEP, EE, IT, CIS)	
Δ T1	1-450-987-21	TRANSFORMER, POWER (LX56: AUS, E, PX, EA, JE, MX, SP)	
Δ T1	1-450-987-31	TRANSFORMER, POWER (LX56: MY)	
Δ T1	1-450-987-41	TRANSFORMER, POWER (LX56: U, CA)	

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Hardware (# mark) list is given in the last of this parts list.

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...

- CAPACITORS
uF : μ F
uH : μ H

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*	1-644-410-11	CORD BOARD (LX56P) *****				ACCESSORIES & PACKING MATERIALS *****	
*****						3-758-045-11 MANUAL INSTRUCTION (English, French, Spanish, Portuguese) (LX56 AEP, CND)	
*	1-652-482-11	PHONO BOARD (LX56) *****				3-758-045-21 MANUAL INSTRUCTION (English) (LX56 US, UK)	
						3-758-045-41 MANUAL INSTRUCTION (German, Dutch, Swedish, Italian) (LX56 AEP, IT)	
C1	1-126-012-11	ELECT 470uF 16V				3-758-045-51 MANUAL INSTRUCTION (English, French, Spanish, Chinese) (LX56 AUS, E, PX, MX, EA, MY, SP, JE)	
						3-758-045-61 MANUAL INSTRUCTION (English, German, Polish) (LX56 EE, CIS)	
D1	8-719-200-82	DIODE 11ES2		*	4-947-532-01	SNOW BOX (L)	
D2	8-719-200-82	DIODE 11ES2		*	4-947-533-01	SNOW BOX (R)	
D3	8-719-200-82	DIODE 11ES2			3-701-806-00	ADAPTOR, 45	
D4	8-719-200-82	DIODE 11ES2		*****			



Δ F1	1-532-613-XX	FUSE TIME-LAG (T200mA)				HARDWARE LIST *****	


*	1-649-845-11	RELAY BOARD (LX56) *****		#1	7-621-773-87	SCREW (64)	
*****				#2	7-623-210-22	WASHER (57)	
				#3	7-624-110-04	6MM E RING	
				#4	7-685-105-01	SCREW (59)	
				#5	7-685-645-79	SCREW (68)	
				#6	7-685-646-79	SCREW (60)	
				#7	7-685-647-79	SCREW (58)	
				#8	7-688-005-01	WASHER (69)	

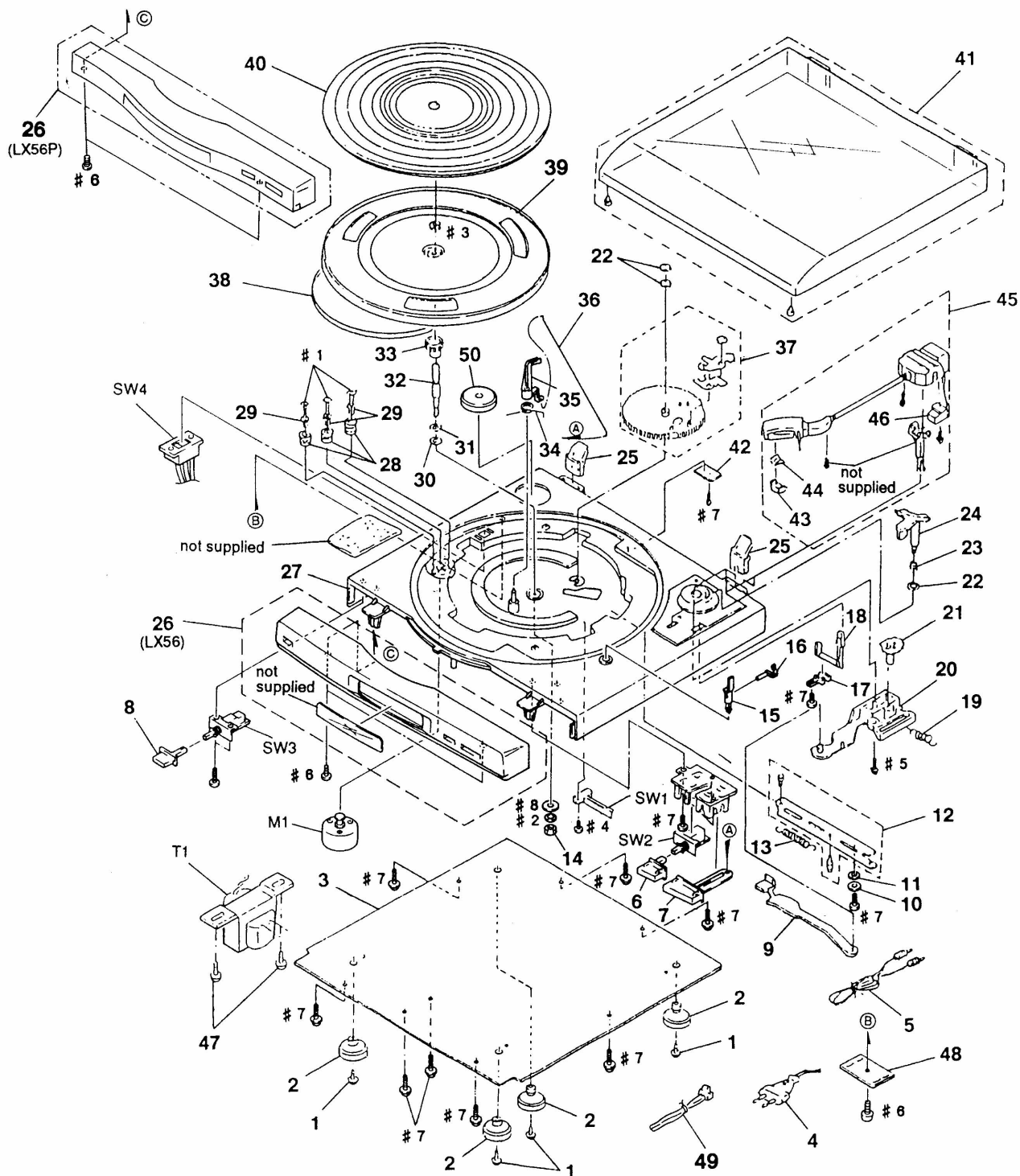
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* 3	4-961-804-01	BUTTON BOARD		41	A-4604-946-A	DUST COVER ASSY	
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8	4-964-184-11	KNOB POWER ...(LX56:SILVER, SILVER METALLIC)		SW1	1-570-666-11	SWITCH (LEAF)	
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10	4-890-173-00	WASHER		SW3	1-692-211-11	SWITCH, PUSH (POWER) (1 KEY) (LX56)	
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15	4-947-491-01	ARM REST		△ T1	1-450-987-41	TRANSFORMER, POWER (LX56: U, CA)	
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In each case, u: μ , for example:

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uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...

• CAPACITORS

uF : μ F

• COILS

uH : μ H

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*	1-644-410-11	CORD BOARD (LX56P) *****				ACCESSORIES & PACKING MATERIALS *****	
*****				3-758-045-11	MANUAL INSTRUCTION (English, French, Spanish, Portuguese) (LX56 AEP, CND)		
*	1-652-482-11	PHONO BOARD (LX56) *****		3-758-045-21	MANUAL INSTRUCTION (English) (LX56 US, UK)		
		< CAPACITOR >		3-758-045-41	MANUAL INSTRUCTION (German, Dutch, Swedish, Italian) (LX56 AEP, IT)		
C1	1-126-012-11	ELECT 470uF	16V	3-758-045-51	MANUAL INSTRUCTION (English, French, Spanish, Chinese) (LX56 AUS, E, PX, MX, EA, MY, SP, JE)		
		< DIODE >		3-758-045-61	MANUAL INSTRUCTION (English, German, Polish) (LX56 EE, CIS)		
D1	8-719-200-82	DIODE 11ES2		*	4-947-532-01	SNOW BOX (L)	
D2	8-719-200-82	DIODE 11ES2		*	4-947-533-01	SNOW BOX (R)	
D3	8-719-200-82	DIODE 11ES2			3-701-806-00	ADAPTOR, 45	
D4	8-719-200-82	DIODE 11ES2		*****			
		< FUSE >			*****		
Δ F1	1-532-613-XX	FUSE TIME-LAG (T200mA)			HARDWARE LIST		
*****					*****		
*	1-649-845-11	RELAY BOARD (LX56) *****		#1	7-621-773-87	SCREW (64)	
*****				#2	7-623-210-22	WASHER (57)	
				#3	7-624-110-04	6MM E RING	
				#4	7-685-105-01	SCREW (59)	
				#5	7-685-645-79	SCREW (68)	
				#6	7-685-646-79	SCREW (60)	
				#7	7-685-647-79	SCREW (58)	
				#8	7-688-005-01	WASHER (69)	

MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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